## Index of Claims

Application/Control No.

09/696,609

Examiner

Vivek Srivastava

Applicant(s)/Patent under Reexamination

HOFRICHTER ET AL.

Art Unit

2611

| √ | Rejected |
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| = | Allowed  |

| _ | (Through numeral)<br>Cancelled |
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| ÷ | Restricted                     |

| Z | Non-Elected  |
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| o | Objected |

| The color of the | Cla        | aim | _            |                                                  |                 |          | ate      |              |          |          | $\neg$   |             | nim        |                                                                                   |                 |          | Da      | to       |          |             | ٦        | Cl       | aim        |          |          |                   |          | Date          |
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| E     E     E     E     E     E     E     D     D     D     E     E     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D     D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 910        |     | 4            | -                                                |                 | Ť        |          | <u></u>      |          | $\neg$   | $\dashv$ |             |            | П                                                                                 |                 | Т        | T       | Ť        | 1        |             | 1        | <u> </u> |            |          |          |                   | Ť        |               |
| 1     1     1     1     1     1     102     102     3     103     1     102     1     102     3     1     103     1     103     1     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     105     106     56     56     106     106     107     107     70     107     110     110     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111<                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ۱ ـ        | 뎔   | 1%           |                                                  |                 | ļ        |          |              |          | - 1      |          | l <u>-</u>  | <u> </u>   |                                                                                   | -               |          |         | ŀ        | 1        |             |          | -        | <u> </u>   | ŀ        |          | - 1               |          |               |
| 1     1     1     1     1     1     102     102     3     103     1     102     1     102     3     1     103     1     103     1     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     105     106     56     56     106     106     107     107     70     107     110     110     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111<                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <u>:</u> ≌ | ġ   | 0            |                                                  |                 |          | ١        |              |          | ļ        |          | 1 2         | i <u>g</u> |                                                                                   | - 1             |          |         | 1        | 1        |             |          | .≝       | <u>.</u> 5 |          | ĺ        | - 1               | ,        |               |
| 1     1     1     1     1     1     102     102     3     103     1     102     1     102     3     1     103     1     103     1     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     105     106     56     56     106     106     107     107     70     107     110     110     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111<                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | "          | ő   | 17           |                                                  |                 |          | 1        |              |          |          | -        | <u>u</u> .  | ត          | 1 1                                                                               | i               |          | 1       |          |          |             |          | 1        | ΙŏΙ        |          | -        | - 1               |          |               |
| 2     3     552     102     3       3     4     554     103     104     55       5     5     55     105     106     66     106     106     77     7     7     7     7     7     7     7     7     7     7     107     8     108     99     109     100     100     100     100     100     100     100     100     100     100     100     100     100     110     110     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |            |     |              | _                                                | $\Box$          |          |          |              |          |          | _        |             |            |                                                                                   |                 | _        | $\bot$  | _        |          |             | 4        |          |            | $\dashv$ |          |                   |          | $\dashv$      |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |     | 4            |                                                  |                 |          |          |              |          |          |          |             |            |                                                                                   |                 |          |         |          | Ш        |             | 4        |          |            |          | _        |                   |          | $\perp$       |
| 4     54     104     55       5     55     106     106     106       7     7     57     107     107     8       8     58     108     108     9     109     100     100     100     100     100     110     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |            |     | Ш            |                                                  |                 |          |          |              |          |          |          |             |            |                                                                                   |                 |          |         |          |          |             |          | L        |            |          |          |                   |          | $\perp$       |
| 4     5     5     55     104     5     5     55     55     105     106     7     105     106     106     106     107     8     107     8     108     9     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     111     111     111     111     111     111     111     112     112     112     112     112     114     114     114     114     114     114     114     114     114     114     114     116     117     117     117     117     117 <td></td> <td>3</td> <td>П</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>53</td> <td>П</td> <td><math>\neg</math><math>\Gamma</math></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>103</td> <td>- i</td> <td></td> <td></td> <td></td> <td></td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |            | 3   | П            |                                                  |                 |          |          |              |          |          |          |             | 53         | П                                                                                 | $\neg$ $\Gamma$ |          |         |          |          |             |          |          | 103        | - i      |          |                   |          |               |
| 5     6     105     106     106     106     107     107     107     107     108     108     9     108     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     100     110     111     111     111     111     111     111     112     112     113     114     144     144     144     144     144     144     144     144     144     144     144     144     144     144     144     144     144     144     144     144     144     144     144     144     144     144     144     144                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |            | 4   | П            |                                                  |                 |          |          |              |          |          | ╗        |             |            | П                                                                                 |                 |          | Т       | T        |          |             | 1        |          | 104        |          |          |                   |          |               |
| 6   7   106   107   107   107   107   107   107   107   107   107   108   109   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100    100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   110   111   111   111   112   113   113   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114   114                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |            | 5   | Ħ            | <b>-</b>                                         |                 |          |          |              |          |          | 7        |             |            |                                                                                   | $\neg$          | $\top$   | +       | $\top$   | <b>†</b> |             |          |          |            |          |          | $\neg \neg$       |          | $\top$        |
| 7     8     57     107     108     9     108     59     109     100     100     60     110     110     110     110     110     110     110     110     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     112     112     112     112     112     112     112     112     112     112     113     114     115     116     66     66     66     67     1117     116     66     66     116     119     120     120     121     121     121     121     121     121     122     122     122     122     122     122     122     122                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |            |     | 1            |                                                  | $\Box$          | _        |          |              |          |          | ┪        |             |            | $\Box$                                                                            |                 |          | $\top$  | $\top$   | <b>†</b> |             | ٦        |          |            |          | $\neg$   | $\neg \uparrow$   |          | $\top$        |
| 8   9   58   108   109     10   60   110   60   110   110   110   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>—</b>   |     | Н            |                                                  | $\vdash$        | 1        |          |              | H        | $\dashv$ | $\dashv$ |             |            |                                                                                   | - +             |          | $\top$  | ┪~~      | 1        |             | 1        |          |            | $\dashv$ |          |                   |          |               |
| 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -          |     | ╫╴           | ┢                                                | H               | $\dashv$ |          |              | Н        |          |          | -           |            | -                                                                                 | _               |          | +       | ╅╴       | +-       | -           | ┨        |          |            | $\dashv$ | $\dashv$ | <del></del> -     |          | +             |
| 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <u> </u>   |     | +            | $\vdash$                                         | $\vdash$        | -        | -        | _            | Н        | $\dashv$ | $\dashv$ | $\vdash$    |            | $\vdash$                                                                          | -               | +        |         | +        | +        |             | 1        | <u> </u> |            | -+       | $\dashv$ | $\dashv$          | -        | -             |
| 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <u> </u>   |     | #            | H                                                | $\vdash$        | $\dashv$ |          |              | H        | $\dashv$ | $\dashv$ |             |            |                                                                                   | +               |          | +       |          | +        |             | -        |          |            |          |          | <del></del>       |          | -+            |
| 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ļ          |     | Į.           |                                                  | $\vdash$        | $\dashv$ |          |              | Ш        |          | _        |             |            |                                                                                   | -+              | _        | +       | _        |          | _           | -        |          |            |          | $\dashv$ |                   | _        | -             |
| 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ļ          |     | 1            | _                                                | Ш               |          |          |              | <u> </u> | -        | 4        | <u></u>     |            |                                                                                   | _               |          | +       |          | +        | $\perp$     | 4        |          |            | _        |          | $\dashv$          |          | $\dashv$      |
| 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |            |     | Щ            | lacksquare                                       | Ш               |          |          | Ш            | Щ        |          | _        | L           |            |                                                                                   |                 |          | $\perp$ | Ц.,      | Ш        |             | 4        |          |            | _        | _        |                   |          | $\perp \perp$ |
| 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |            |     | Ш            |                                                  |                 | l        |          |              |          |          |          |             |            |                                                                                   |                 |          | _ _     |          |          |             | 1        |          |            |          |          |                   |          | 丄             |
| 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |            |     | П            | L                                                |                 | T        |          | L_]          |          |          |          |             |            | $oxed{oxed}$                                                                      |                 |          |         | T.       |          |             |          | L        |            |          | ]        | [                 | ]        |               |
| 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |            | 15  | П            |                                                  | П               |          |          |              |          |          |          |             | 65         |                                                                                   |                 |          |         |          |          | T           | 1        |          | 115        |          |          |                   |          | T             |
| 17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |            |     | П            |                                                  | П               | $\neg$   |          |              |          |          |          |             |            |                                                                                   |                 | $\neg$   | T       |          | T -      |             | 7        |          | 116        |          |          | $\neg \neg$       |          | $\Box$        |
| 18   19   68   118   119   119   119   119   120   120   120   120   120   121   121   121   121   121   121   121   122   123   123   123   123   123   123   123   123   123   123   123   123   123   123   123   123   123   123   123   123   123   124   124   124   124   124   124   124   124   124   124   124   124   125   125   125   126   126   127   77   127   77   127   77   127   77   127   78   128   128   128   129   129   129   130   130   130   130   130   130   130   131   131   131   131   131   131   131   131   131   131   131   132   33   133   133   133   133   133   133   134   134   134   134   134   134                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |            |     | 11           |                                                  |                 | $\neg$   |          |              |          |          |          |             |            | П                                                                                 |                 | $\neg$   | 十       |          |          |             | 1        |          |            |          | _        |                   |          |               |
| 19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |            |     | ╫╴           |                                                  |                 | $\dashv$ |          | _            |          |          | -        |             |            | Н                                                                                 |                 | _        | +-      |          |          | _           | ┪        |          |            | 一        |          |                   | $\neg$   | $\dashv$      |
| 120                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            |     | ₩            |                                                  |                 | $\dashv$ | $\equiv$ | _            |          | -        | -        |             |            | $\vdash \vdash$                                                                   |                 | $\dashv$ | +-      | +-       |          |             | ┨        |          |            | $\dashv$ |          |                   |          |               |
| 21   22   71   72   121   122   123     23   74   124   124   125   126   125   126   126   127   127   127   126   127   127   127   127   128   128   128   129   129   130   130   130   130   130   131   130   131   130   131   133   132   132   132   133   133   133   133   133   133   133   133   134   134   134   134   134   134   135   136   136   137   137   138   138   138   138   139   140   141   141   141   141   141   141   142   142   142   142   142   143   144   144   144   145   146   146   146   146   146   147   148   148   149   149   149   149   149   149   149   149   149   149   149   149   149   149 <td></td> <td></td> <td>╫┈</td> <td>-</td> <td>Н</td> <td>-</td> <td>-</td> <td>H</td> <td></td> <td><math>\dashv</math></td> <td><math>\dashv</math></td> <td>-</td> <td></td> <td><math>\vdash</math></td> <td></td> <td>+-</td> <td>+</td> <td>+-</td> <td>+</td> <td></td> <td>-</td> <td></td> <td></td> <td><math>\dashv</math></td> <td></td> <td></td> <td>-</td> <td></td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |            |     | ╫┈           | -                                                | Н               | -        | -        | H            |          | $\dashv$ | $\dashv$ | -           |            | $\vdash$                                                                          |                 | +-       | +       | +-       | +        |             | -        |          |            | $\dashv$ |          |                   | -        |               |
| 22   33   122   123     24   74   124   123     25   75   125   126     26   77   127   128     29   78   128   129     30   80   130   130     31   80   130   131     32   81   131   131     32   83   133   133     33   83   133   133     34   84   134   135     36   86   136   136     37   87   137   138     39   90   140   141     41   91   141   141     42   92   142   142     43   93   143   144     45   96   146   146     47   97   147   149     48   99   149   149                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |            |     | ╫            |                                                  |                 |          |          |              |          | $\dashv$ | -        |             |            | ⊢⊹                                                                                |                 |          |         |          |          |             | -        |          |            | $\dashv$ |          | $\dashv$          | -        | +             |
| 23   123   123   124     25   76   125   126     26   76   126   127     28   77   78   128   129     29   79   129   130   130   130   131   131   132   132   132   132   133   133   134   134   134   134   134   134   134   135   135   135   136   137   136   137   138   138   138   138   138   138   139   140   141   141   141   142   143   143   144   144   144   144   144   144   144   144   144   144   144   144   145   146   147   146   147   148   148   148   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |            |     | ╙            | -                                                |                 | $\dashv$ |          |              |          |          | -        |             |            | $\square$                                                                         |                 | $\dashv$ | -       | -        |          |             | -        |          |            |          |          |                   |          | _             |
| 24   74   124   125     25   76   126   126     27   77   127   128   129     28   79   128   129   129   130   130   131   130   131   132   132   132   132   132   132   133   133   133   134   134   134   134   134   134   135   136   135   136   137   137   137   137   137   137   137   138   138   139   140   140   141   142   142   142   142   142   142   142   142   144   144   144   144   144   144   145   146   147   147   148   148   148   148   148   148   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |            |     | Ш.           |                                                  | $\sqcup$        |          |          |              |          | $\vdash$ | 4        |             |            | $\vdash \vdash$                                                                   | _               | -        | _       | _        |          |             | 4        |          | 122        | _        |          |                   |          | $\rightarrow$ |
| 75                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | L          |     | Щ            |                                                  |                 | _        |          |              |          |          | _        | ļ           |            | Ш                                                                                 |                 |          | 4       | _        |          |             | 4        |          |            | _        |          | $\longrightarrow$ |          | $\dashv$      |
| 26   126     27   128     28   78     29   128     30   80     31   80     31   81     32   82     33   83     34   84     35   85     36   86     37   87     38   136     39   89     40   90     90   140     91   141     42   92     43   93     44   94     45   96     46   96     47   97     48   99                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |            |     | Ц            |                                                  | Ш               |          |          |              |          |          |          |             |            |                                                                                   | _               | _        | Д.      |          | <u> </u> |             | 4        |          |            | $\perp$  |          |                   | _        |               |
| 27   127   128   128   128   128   128   128   128   129   129   129   130   130   131   130   131   131   132   132   132   132   132   133   133   133   133   133   134   134   134   134   134   134   135   135   135   135   135   135   136   136   137   136   137   137   138   138   138   138   139   140   140   141   141   141   141   141   142   142   142   143   144   144   144   144   144   144   144   144   144   144   144   145   146   147   147   148   148   148   148   148   148   148   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |            |     | Ш            |                                                  |                 |          |          |              | -        |          | _]       |             |            |                                                                                   |                 |          |         |          |          |             |          |          |            |          |          |                   | _        |               |
| 28   78   128     29   129     30   80   130     31   81   131     32   82   132     33   83   133     34   84   134     35   85   135     36   86   136     37   88   138     39   88   138     39   90   140     40   90   140     41   91   141     42   92   142     43   93   143     44   94   94     45   96   146     47   97   147     48   98   148     49   99   149                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |            |     | П            |                                                  |                 |          |          |              |          |          |          |             | 76         |                                                                                   |                 |          |         |          |          |             |          |          | 126        |          |          |                   |          |               |
| 28   78   128     29   129     30   80   130     31   81   131     32   82   132     33   83   133     34   84   134     35   85   135     36   86   136     37   88   138     39   88   138     39   90   140     40   90   140     41   91   141     42   92   142     43   93   143     44   94   94     45   96   146     47   97   147     48   98   148     49   99   149                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |            | 27  | Π            |                                                  |                 |          |          |              |          | П        | 7        |             | 77         | П                                                                                 |                 |          |         |          |          |             | 7        |          | 127        |          |          |                   |          |               |
| 29                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |            |     | П            |                                                  |                 |          |          |              |          |          | _        |             | 78         |                                                                                   |                 |          | T       | _        |          |             | 7        |          |            |          |          |                   |          |               |
| 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |            |     | H            | t                                                |                 |          |          |              |          |          |          |             |            | $\Box$                                                                            |                 |          | Ť       | T        | 1        |             | 1        |          |            | $\neg$   |          |                   |          |               |
| 31 V   32 131   33 132   33 133   34 84   35 85   36 86   37 88   38 136   39 88   40 90   41 91   42 92   43 93   44 94   45 96   46 96   47 98   48 99   146 147   48 99   148 149                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |            |     | H            | $\vdash$                                         |                 | _        |          | -            |          |          | _        |             |            | $\vdash$                                                                          |                 | +        | $\top$  | +        | 1        | -           | 1        |          | 130        | $\neg$   | _        |                   |          |               |
| 32 82   33 83   34 84   35 85   36 86   37 87   38 88   39 89   40 90   41 91   42 92   43 93   44 94   45 95   46 96   47 97   48 98   49 99                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |            |     | 1            | <del>                                     </del> |                 |          | _        |              |          | $\vdash$ | $\dashv$ | <del></del> |            | $\vdash \vdash$                                                                   | _               | -        | +       | +        | +        |             | 4        |          |            |          |          |                   | $\neg$   | $\dashv$      |
| 33 83   34 84   35 85   36 86   37 87   38 88   39 89   40 90   41 91   42 92   43 93   44 94   45 95   46 96   47 97   48 98   49 99                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -          |     | ┪            |                                                  | H               |          |          |              |          | $\vdash$ |          |             |            |                                                                                   |                 | +        | -       | +-       | +        | _           | ┨        |          |            | $\dashv$ |          |                   | $\neg$   | +             |
| 34 84   35 85   36 86   37 87   38 88   39 89   40 90   41 91   42 92   43 93   44 94   45 95   46 96   47 97   48 98   49 99                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b></b>    |     | -            | <del> </del>                                     | <del>  </del>   | -        | -        | <del> </del> | $\vdash$ | $\vdash$ | $\dashv$ |             |            | ├                                                                                 | $\dashv$        | +        | +       | +-       | +        | +           | $\dashv$ |          |            | $\dashv$ | -        |                   | -        | +             |
| 35 85   36 135   37 87   38 88   39 89   40 90   41 91   42 92   43 93   44 94   45 95   46 96   47 97   48 98   49 99                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -          |     | $\vdash$     | $\vdash$                                         | $\vdash \vdash$ | $\vdash$ |          |              | $\vdash$ | $\dashv$ | $\dashv$ | -           |            |                                                                                   | -               |          | -+-     | +-       | +-       |             | $\dashv$ |          | 133        | -        | $\dashv$ | -                 | -        | +             |
| 36   37   86   136   137   137   138   138   138   138   138   138   139   139   140   140   140   140   140   140   141   141   141   141   141   141   142   142   143   143   143   144   144   144   144   145   146   147   147   148   148   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149<                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b> </b>   |     | $\vdash$     | -                                                | $\vdash \vdash$ |          |          | ļ            | <u> </u> |          | $\dashv$ | <u> </u>    |            | $\vdash$                                                                          | $\dashv$        | +        | - -     | -        | 1        |             | 4        | ļ        |            | $\dashv$ |          | $\vdash \vdash$   | $\dashv$ | +             |
| 37   88   137     38   88   138     39   89   139     40   90   140     41   91   141     42   92   142     43   93   143     44   94   144     45   95   145     46   96   146     47   97   147     48   98   148     49   99   149                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <u> </u>   |     | $\vdash$     | <u> </u>                                         | Щ               | $\sqcup$ |          | L            | <u> </u> | $\sqcup$ | 4        | <u> </u>    |            | $\sqcup$                                                                          | $\perp$         |          | $\perp$ | $\perp$  | -        |             | J.       | ļ        |            | _        | _        |                   | _        | $-\bot$       |
| 38   88   138     39   90   140     40   90   140     41   91   141     42   92   142     43   93   143     44   94   144     45   95   145     46   96   146     47   97   147     48   98   148     49   99   149                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | L          |     | <u> </u>     | ļ                                                | Ш               |          |          |              |          | $\sqcup$ | _        | L_          |            | Ш                                                                                 | $\perp$         | _ _      | 1       | $\perp$  | ļ        |             | 4        |          |            |          |          |                   | _        |               |
| 39 89   40 90   41 91   42 92   43 93   44 94   45 95   46 96   47 97   48 98   49 99                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |            |     | <u> </u>     | <u> </u>                                         | Ш               |          |          |              |          | $\Box$   | _        |             |            |                                                                                   |                 |          | $\perp$ | $\perp$  |          |             | ╛        |          |            |          |          | $\Box$            |          |               |
| 40   90   140     41   91   141     42   92   142     43   93   143     44   94   144     45   95   145     46   96   146     47   97   147     48   98   148     49   99   149                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |            |     | L            | L                                                | $\sqcup$        |          |          |              |          |          |          |             |            |                                                                                   |                 |          | L       | $\perp$  |          |             | ╛        |          |            | [        |          |                   |          | $\bot$        |
| 40   90   140     41   91   141     42   92   142     43   93   143     44   94   144     45   95   145     46   96   146     47   97   147     48   98   148     49   99   149                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |            |     | L            |                                                  |                 |          |          |              |          |          |          |             |            |                                                                                   | T               |          |         |          |          |             | 1        |          | 139        |          |          |                   | [        |               |
| 41 91   42 92   43 93   44 94   45 95   46 96   47 97   48 98   49 99                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |            |     |              |                                                  |                 |          |          | -            |          |          |          |             | 90         | П                                                                                 | $\top$          | $\top$   | Т       | T        |          |             | 1        |          | 140        |          |          |                   |          |               |
| 42 92   43 93   44 94   45 95   46 96   47 97   48 98   49 99                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |            | 41  |              |                                                  | $\Box$          |          |          |              |          |          |          |             |            |                                                                                   | $\neg$          |          | Τ       | 1        |          |             | 7        |          |            |          |          |                   |          | T             |
| 43 93   44 94   45 95   46 96   47 97   48 98   49 99                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |            | 42  |              |                                                  | $\sqcap$        |          | П        |              |          |          |          |             |            | H                                                                                 |                 | 十        | T       | $\top$   |          |             | 1        |          |            |          | -1       |                   |          | $\top$        |
| 44 94   45 95   46 96   47 97   48 98   49 99                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |            |     | 1            |                                                  | H               |          | -        |              | $\vdash$ | -        | $\neg$   |             |            | $\vdash$                                                                          | -+              | $\dashv$ | +       | $\top$   |          | $\vdash$    | ┪        | ,        |            | -        | -1       |                   | _        | $\neg$        |
| 45 95   46 96   47 97   48 98   49 99                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | $\vdash$   | 44  | <del> </del> | $\vdash$                                         | $\vdash$        | $\dashv$ | $\vdash$ |              | $\vdash$ | -+       | $\dashv$ |             | 94         | $\vdash \!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!$ |                 | +        | +       | +        | +        | -           | -        | -        | 144        | $\dashv$ | ᅱ        | -                 | $\neg$   | $\dashv$      |
| 46 96   47 97   48 98   49 99                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -          | 15  | $\vdash$     | $\vdash$                                         | $\vdash$        |          |          | -            | Н        | -        | $\dashv$ | -           | 05         | $\vdash$                                                                          | +               |          | +       | +        | 1        | -           | -        | <b></b>  | 145        | $\dashv$ | ᅱ        | $\dashv$          | $\dashv$ | +             |
| 47 97   48 98   49 99                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |            |     | $\vdash$     | -                                                |                 |          | $\vdash$ | <u> </u>     | $\vdash$ |          | $\dashv$ | -           |            | $\vdash \vdash$                                                                   |                 |          | +       | +        |          | $\vdash$    | 4        |          |            |          | 1        | $\dashv$          | $\dashv$ | +             |
| 48 98   49 99   148 149                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <u> </u>   | 40  | $\vdash$     | <b>—</b>                                         | Ш               |          | <u> </u> |              |          | $\dashv$ | $\dashv$ |             | 96         | $\sqcup$                                                                          |                 | $\bot$   | 4       | $\perp$  | -        | $\perp$     | 4        | ļ        |            |          |          |                   | _        | $\dashv$      |
| 49 99 149                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <u> </u>   |     | <u> </u>     |                                                  | Ш               |          |          |              | Ш        | $\perp$  | _        |             |            | Ш.                                                                                |                 |          | $\perp$ | $\perp$  | 1_       |             | _        | ļ        |            |          | _        | _                 |          | $\dashv$      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |            | 48  | $oxed{oxed}$ | L.                                               |                 |          |          |              |          | [        | _        |             |            |                                                                                   |                 |          |         |          |          | $\Box \bot$ | ╛        |          |            |          |          |                   | $\Box$   | $\perp$       |
| 50 100 150                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |            | 49  | L            | L                                                | $\Box$          | [        |          |              |          |          | ╝        |             | 99         |                                                                                   | $\Box I^{T}$    | Т        |         | _[_      |          | LΤ          | 1        |          | 149        |          |          |                   |          |               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |            | 50  |              |                                                  | П               |          |          |              |          |          | $\neg$   |             | 100        |                                                                                   |                 |          |         | <u> </u> |          |             | 7        |          | 150        |          |          | 1                 |          |               |